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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 6853	
09/770,215	01/29/2001	Christophe Mangin	202504US2		
22850 7590 05/20/2004 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER		
			NGUYEN, VAN KIM T		
			ART UNIT	PAPER NUMBER	
	,		2661	8	
			DATE MAILED: 05/20/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	Application No. Applicant(s)					
·		09/770,215	,	MANGIN, CHRISTOPHE				
•	Office Action Summary	Examiner		Art Unit				
		Van Kim T.		2661				
Period fo	The MAILING DATE of this communication or Reply	n appears on the (over sheet with the c	orrespondence add	Iress			
THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATION sions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by eply received by the Office later than three months after the end patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no even on. a reply within the statute period will apply and will statute, cause the applic	t, however, may a reply be tim ory minimum of thirty (30) days expire SIX (6) MONTHS from ation to become ABANDONEI	nely filed s will be considered timely. the mailing date of this cor D (35 U.S.C. § 133).				
Status								
1) 🛛	Responsive to communication(s) filed on	29 January 2001.						
· · · · · · · · · · · · · · · · · · ·	☐ This action is FINAL . 2b) ☐ This action is non-final.							
3)□	<u>_</u>							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
	Claim(s) <u>1-20</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	☐ Claim(s) 1-20 is/are rejected.							
	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction a	ind/or election red	luirement.					
Applicati	on Papers							
9)□ .	The specification is objected to by the Exa	miner.						
10) 🗌	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)[The oath or declaration is objected to by th	ne Examiner. Note	the attached Office	Action or form PTO)-152 .			
Priority u	nder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International Bu	nents have been nents have been priority documen ureau (PCT Rule	received. received in Application ts have been receive 17.2(a)).	on No d in this National S	Stage			
* S	ee the attached detailed Office action for a	a list of the certifie	ed copies not receive	d.				
Attachment	(s)							
	e of References Cited (PTO-892)	4	Interview Summary (
3) 🛛 Inform	e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO-1449 or PTO/SI No(s)/Mail Date <u>5</u> .	B/08) 5	Paper No(s)/Mail Da Notice of Informal Pa Other:		152)			

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DETAILED ACTION

This Office Action is responsive to communications filed on January 29, 2001.

Claim Objections

Claims 8-17 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claims. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

Claims 1, 7, and 10 are objected to because of the following informalities:

Claim 1 recites "acknowledgement segment an ---" on line 9. It probably should have been "acknowledgement segment on ---".

Claim 7 recites "Wa = Min (i, Wa)" on line 7. It probably should have been "Wa = Min (Lim, Wa)".

Claim 10 recites "o e" on line 1. It probably should have been "one".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "the flow " on line 1, "the level" on line 2, "the TCP segment" and "the connection pass" on line 3, "the acknowledgement segment" on line 4, etc.

There is insufficient antecedent basis for this limitation in the claim.

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Similarly, claim 18 recites the limitation "the down link" on line 4, "the basis" on line 5, etc. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li et al (US 6,687,227), in view of Comer (Internetworking with TCP/IP, Principles, Protocols, and Architectures, Fourth Edition, 2000).

As shown in Figures 1-5, Li discloses a method of controlling the flow of at least one TCP connection between a sender (30, 34) and a receiver (32, 36), comprising: receiving an ACK from the receiver to sender at a multiplexing node (38, 40); controlling (revising) a window size parameter; and transmitting an ACK to the sender from the multiplexing node with an updated window size parameter (col. 4: line 60 – col. 5: line 8; col. 5: line 45 – col. 6: line 24).

However, Li does not explicitly call for controlling the window size based on the difference between the first context value and the second context value associated with respective TCP connections and sequence numbers.

As shown in Figure 13.7 (page 221), Comer teaches a TCP segment comprising a header field follow by a data field. The header comprises a sequence number, an acknowledgement number, and an associated window field. Comer also teaches that at any time, TCP acts as if the window size is the different between the first context value (receiver_advertisement) and the

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second context value (congestion_window), (page 232-233: Section 13.20 Response to Congestion).

Since it is highly desirable to effectively transport packet data using Internet protocol such as TCP/IP in an under-utilizing allocated high-speed radio channel, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize Comer's method of updating window size in Li's TCP network, motivated by the need to reduce network congestion, maximize data throughput, and efficiently utilize network resources.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Dillon (US 6,701,370); Patel (US 6,697,378); Jorgensen (US 6,680,922); Lindsay (US 6,564,267); Park et al (US 6,646,985); Thorne et al (US 6,643,710); Lindsay (US 6,564,267); Ramaswamy et al (US 6,563,787); Gullicksen et al (US 6,370,114); Dillon et al (US 6,115,750).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Van Kim T. Nguyen whose telephone number is 703-305-7692. The examiner can normally be reached on 8:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas W. Olms can be reached on 703-305-4703. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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vkn

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